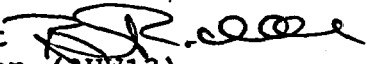



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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region III  
841 Chestnut Building  
Philadelphia, Pennsylvania 19107

SUBJECT: Memorandum of Clarification DATE: March 18, 1993  
Concerning the Sources of Ground  
Water Contamination at the Croydon  
TCE Site

FROM: Bruce Rundell, Geologist   
Technical Support Section (3HW13)

TO: Cesar Lee, Remedial Project Manager   
SE Pennsylvania Remedial Section (3HW21)

There are two separate contaminate plumes at the Croydon TCE Site. These are the main TCE plume, located west of Hog Run Creek and a smaller secondary plume, located east of Hog Run Creek. These two plumes are shown on the attached figure as "Plume A" and "Plume B", respectively. Both the direction of movement and the predicted source areas of these two plumes are different.

Plume A is migrating eastward toward Hog Run Creek. This plume is largely discharging to the creek. It is possible for some of the deeper portion of the plume to migrate under Hog Run Creek and eventually discharge to the Delaware River. The exact source area for Plume A is unknown and may include many small source areas from either facility spills or illegal dumping. Knowledge of the ground water flow direction indicate that the source or sources of Plume A are located to the west of Hog Run Creek.

The smaller Plume B is migrating from the Rohm & Hass Manufacturing Area westward toward Hog Run Creek. The shallow portion of this plume will also discharge to Hog Run Creek. The westward ground water flow direction east of Hog Run Creek reverses direction with increased depth and also discharges to the Delaware River. The source area for Plume B is located on the Rohm & Hass Manufacturing Area. This statement is based on the known ground water flow directions.

If there are any questions feel free to contact me at (215) 597-1268.

ATTACHMENT

cc: 3/26/93

P. ANDERSON (3HW21)

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P. EWALD, PAPER 3/1/93

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